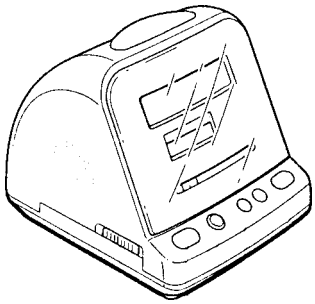
aiwa SERVICE

FR-A350 EZ(B,S)



SERVICE MANUAL

RADIO RECEIVER

aiwa

S/M Code No. 09-995-331-3R1

SPECIFICATIONS

Power source	AC 230 V, 50 Hz
Output	280 mW (EIAJ)
Power consumption	4 W
Speaker	57 mm, 8 ohms
Frequency range	FM : 87.5 - 108 MHz AM : 530 - 1,605 kHz
Antennas	FM wire antenna Ferrite bar antenna for AM
Dimensions (W x H x D)	124 x 126 x 160 mm (5 x 5 x $6^{3}/_{8}$ in.)
Weight	754 g (1.66 lbs.)

• Design and specifications are subject to change without notice

ELECTRICAL MAIN PARTS LIST

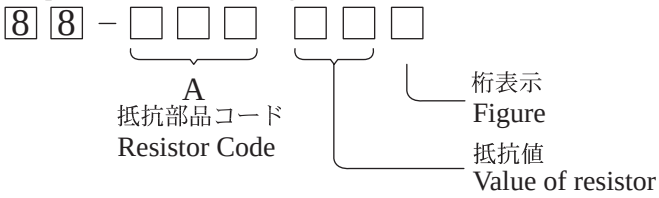
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION

⚠

• Regarding connectors, They are not stocked as they are not the initial order items.
The connectors are available after they are supplied from connector manufacturers upon the order is received.

○チップ抵抗部品コード／

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding

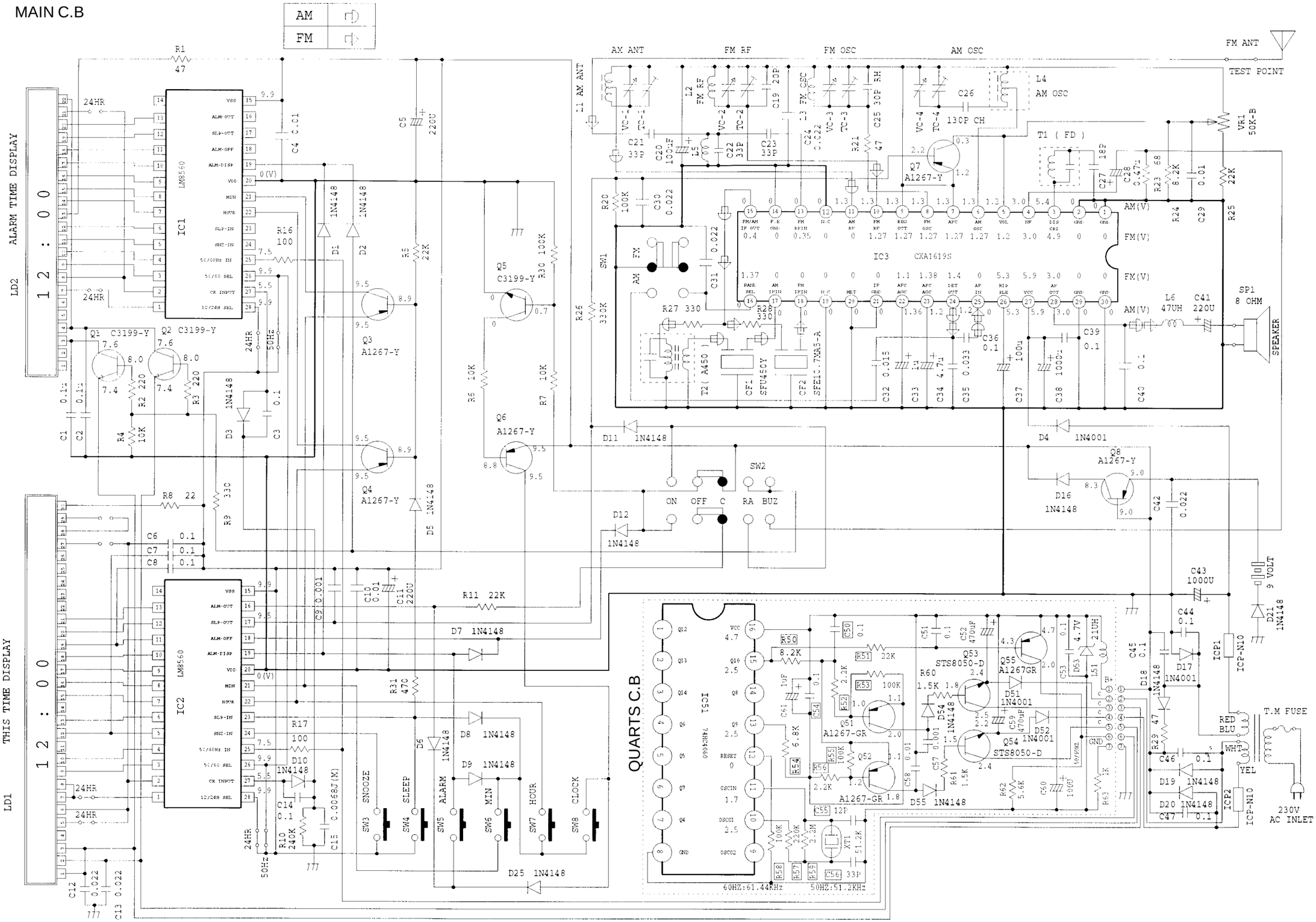


Chip resistor

Wattage	Type	Tolerance		Form	L	W	t	
1/16W	1608	5%	CJ		1.6	0.8	0.45	108
1/10W	2125	5%	CJ		2	1.25	0.45	118
1/8W	3216	5%	CJ		3.2	1.6		128

SCHEMATIC DIAGRAM – 1

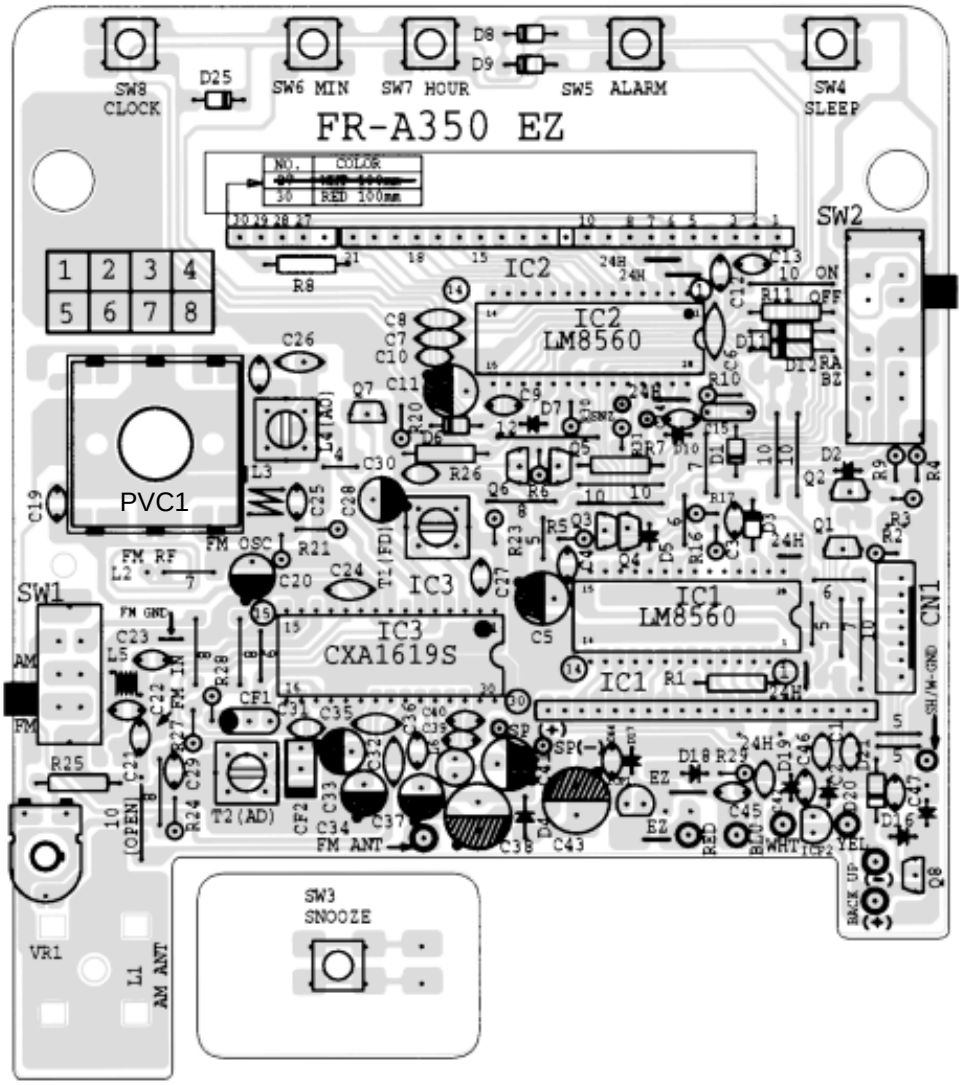
MAIN C.B

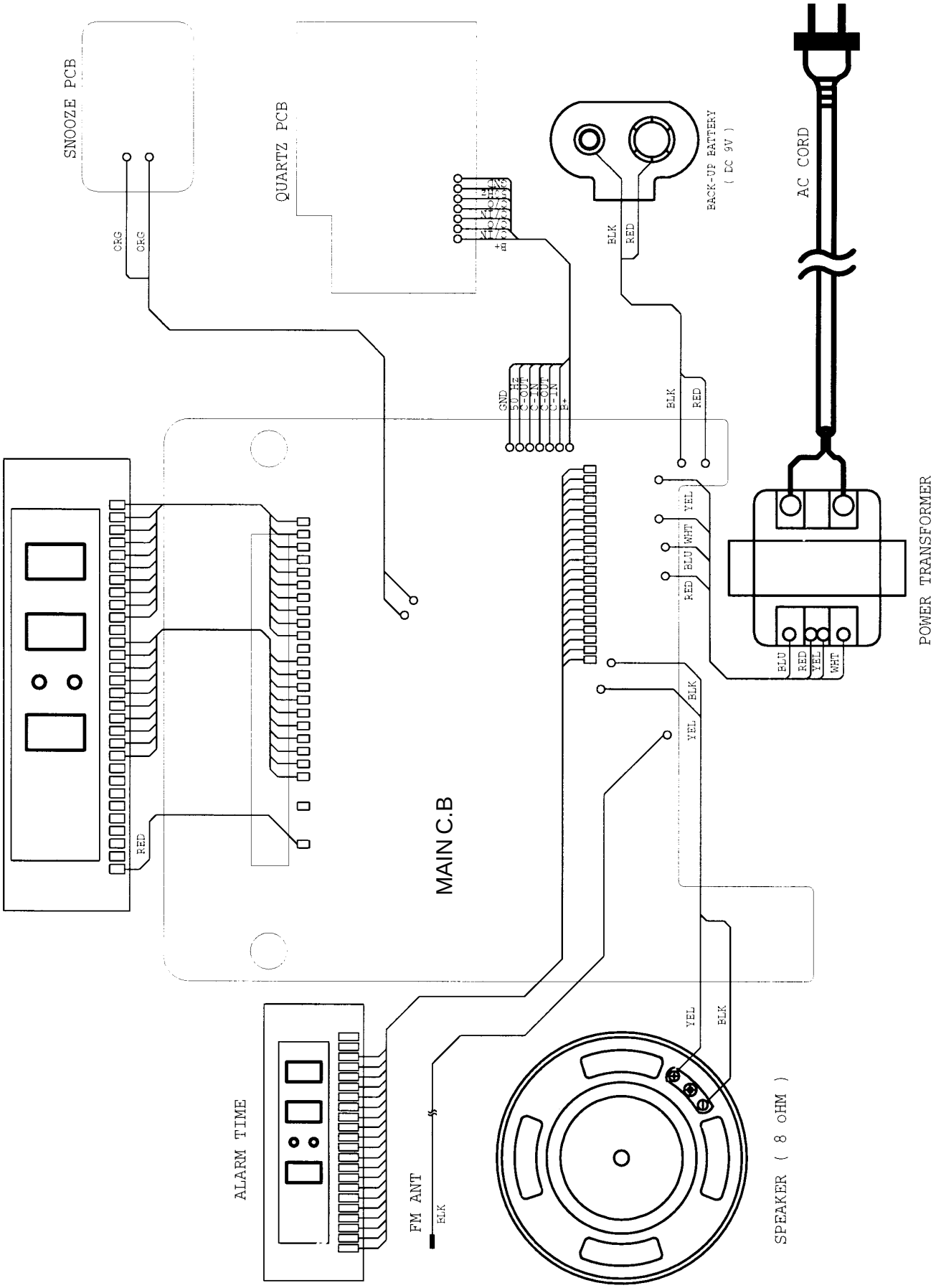


4

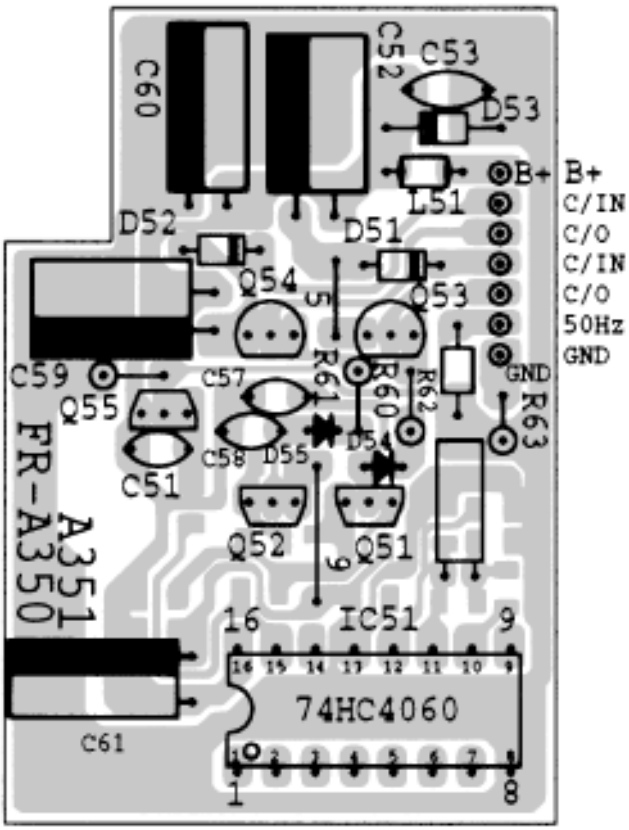
5

MAIN C.B

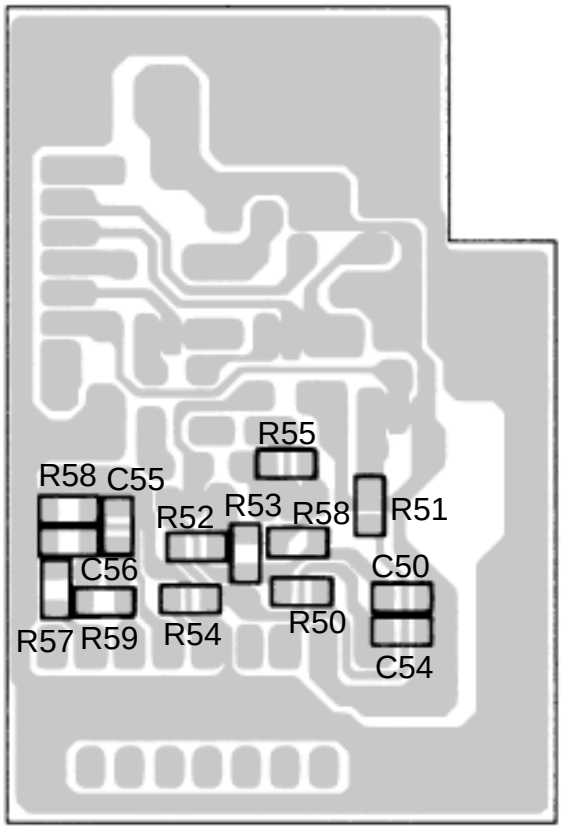

FR-A350 EZ
SW8 CLOCK
SW6 MIN
SW7 HOUR
SW5 ALARM
SW4 SLEEP
SW2
SW1
SW3 SNOOZE
IC1 LM8560
IC2 LM8560
IC3 CXA1619S
PVC1
VR1
CN1
FM
AM
FM ANT
AM ANT
BACK UP


SNOOZE PCB
QUARTZ PCB
BACK-UP BATTERY
(DC 9V)
AC CORD
POWER TRANSFORMER
MAIN C.B
ALARM TIME
FM ANT
SPEAKER (8 oHM)
ORG
ORG
RED
ELK
RED
GND
5U HZ
S-OUT
S-IN
S-OUT
C-IN
E+
YEL
BLU
WHT
RED
ELK
YEL
YEL
ELK
BLU
RED
YEL
WHT
ELK

QUARTS C.B



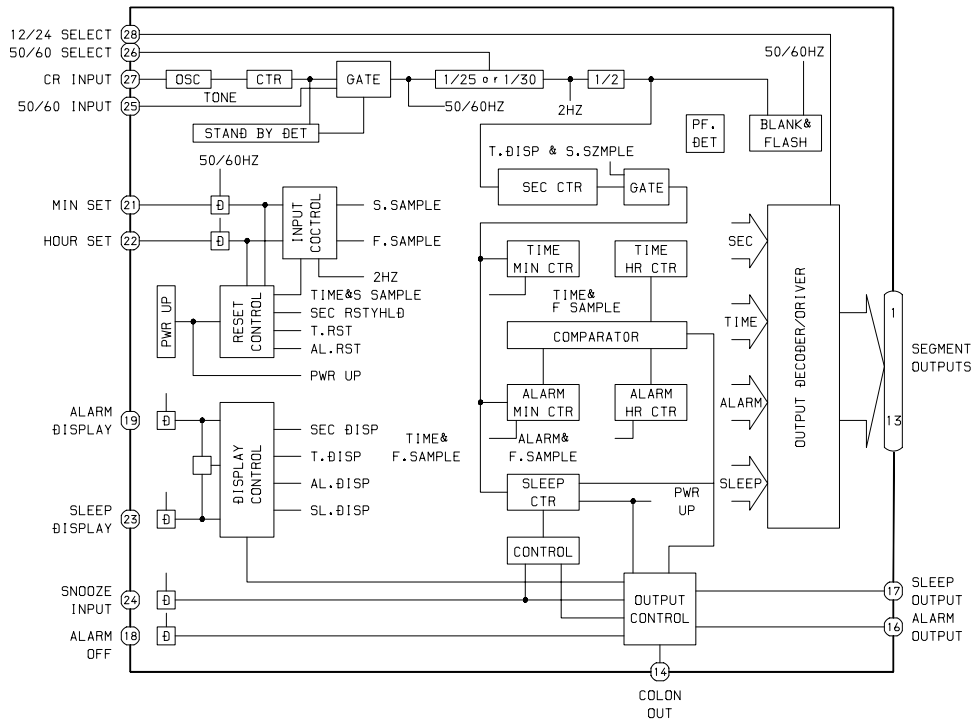
DISCRETE PARTS
(PARTS SIDE VIEW)



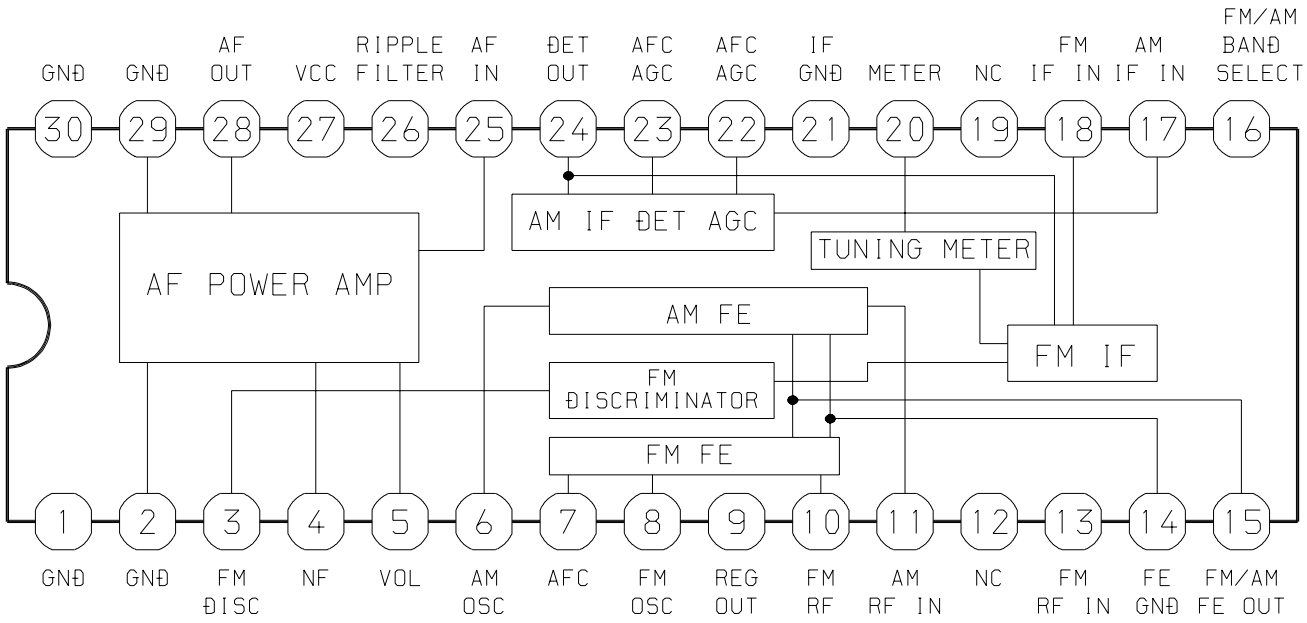
CHIP PARTS
(PATTERN SIDE VIEW)

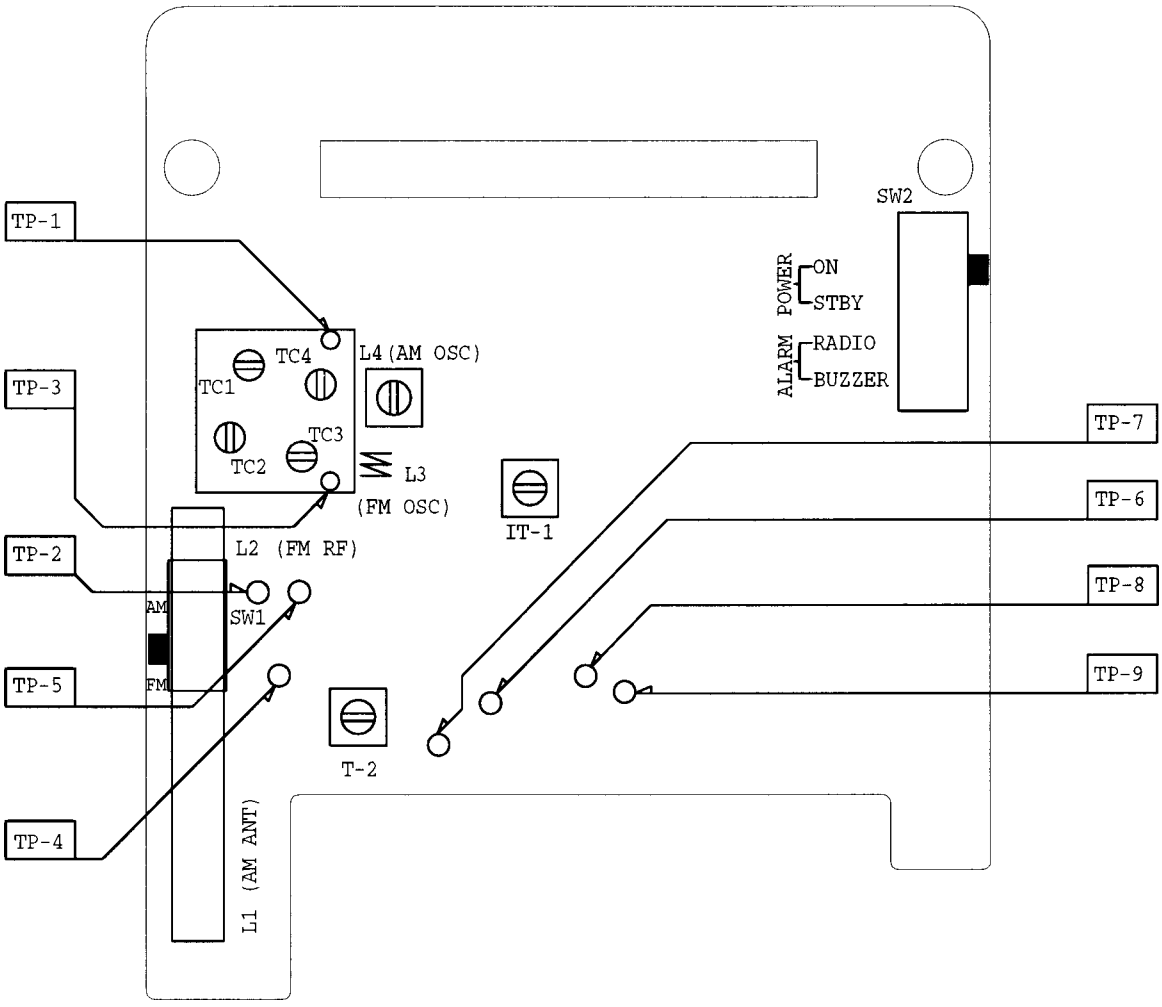
IC BLOCK DIAGRAM

IC,LM8560



IC,CXA1619S




TP-1
TP-3
TP-2
TP-5
TP-4
TC4
TC1
TC3
TC2
L4 (AM OSC)
L3
(FM OSC)
L2 (FM RF)
SW1
AM
FM
L1 (AM ANT)
IT-1
T-2
SW2
POWER
ON
STBY
ALARM
RADIO
BUZZER
TP-7
TP-6
TP-8
TP-9

ELECTRICAL ADJUSTMENT

1. AM IF Adjustment
   Setting : • Test point : TP1, 2(IN), TP8, 9(OUT)
   T2 . . . . . 450 kHz

2. FM IF Adjustment
   Setting : • Test point : TP2, 3(IN), TP8, 9(OUT)
   IT1 . . . . . 10.7 MHz

3. AM FREQ, RANGE Adjustment
   Setting : • Test point : L1(IN), TP6, 7, 8, 9(OUT)
   L4 . . . . . 515 kHz
   TC4 . . . . . 1635 kHz

4. AM Tracking Adjustment
   Setting : • Test point : L1(IN), TP6, 7(OUT)
   L1 . . . . . 600 kHz
   TC1 . . . . . 1400 kHz

5. FM FREQ, RANGE Adjustment
   Setting : • Test point : TP4, 5(IN), TP6, 7, 8, 9(OUT)
   L3 . . . . . 87.4 MHz
   TC3 . . . . . 108.3 MHz

6. FM Tracking Adjustment
   Setting : • Test point : TP4, 5(IN), TP6, 7(OUT)
   TC2 . . . . . 106 MHz

PRACTICAL SERVICE FIGURE

<AM SECTION>

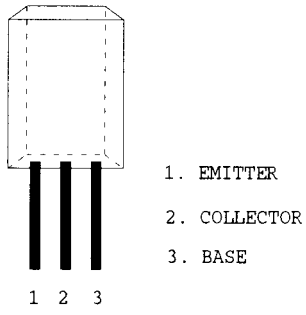
Sensitivity	Less than 49 dB (600 kHz)
(S/N 10dB)	Less than 46 dB (1000/1400 kHz)
S/N (Input 60dB)	Less than 21 dB (600 kHz)
	Less than 24 dB (1000/1400kHz)
Distortion (Input 100dB)	Less than 3 % (1000 kHz)
Intermediate frequency	450kHz

<FM SECTION>

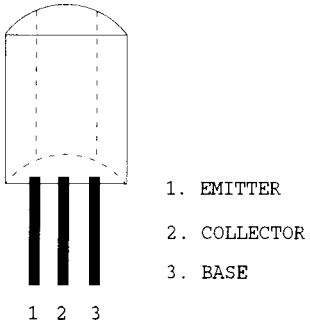
Sensitivity (3% dist.)	Less than 20 dB (88/98/108 MHz)
Distortion (at 60dB)	Less than 2% (98MHz)
Intermediate frequency	10.7MHz

TRANSISTOR ILLUSTRATION

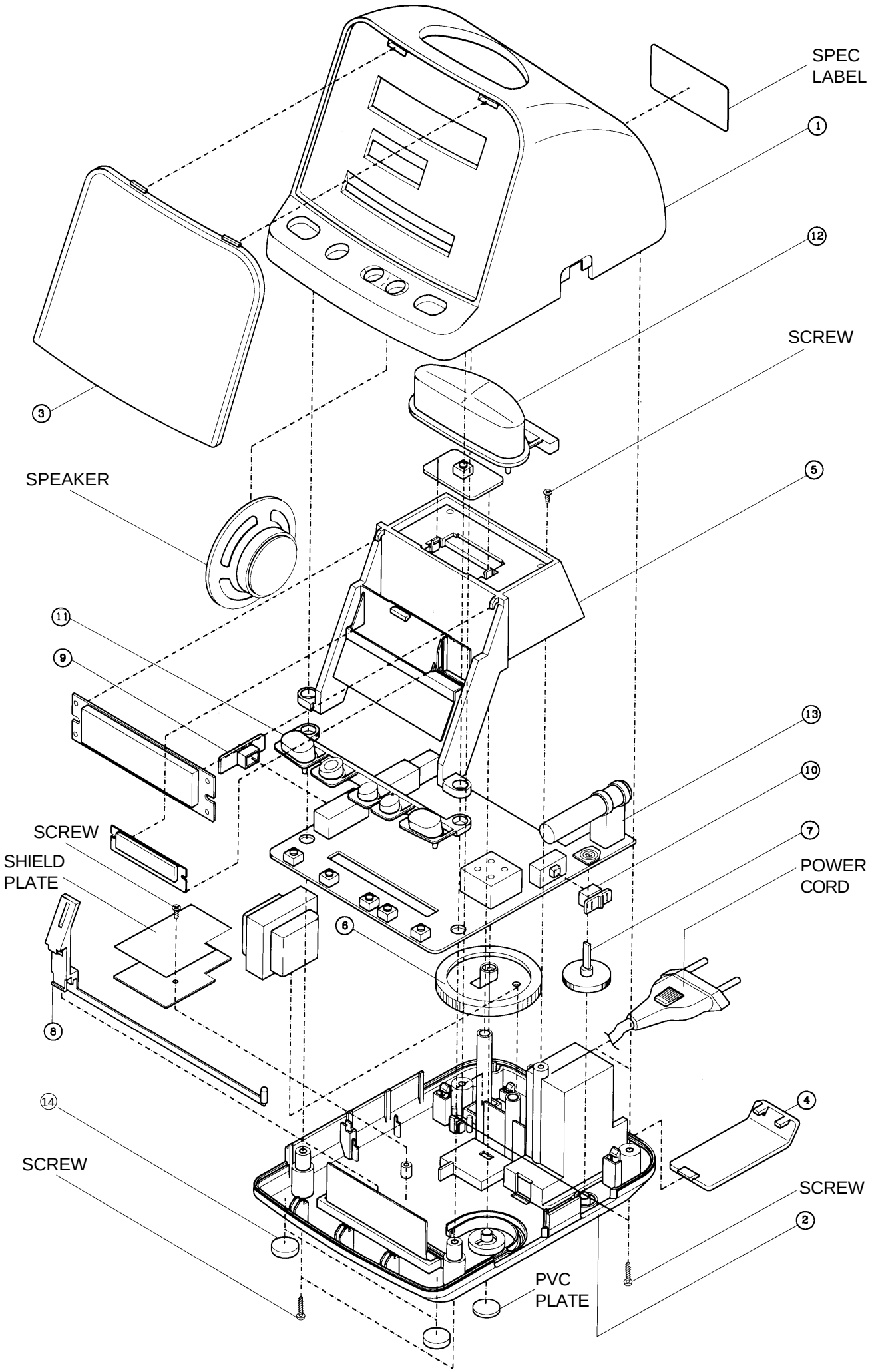
A1267-Y/GR
C3199-Y



STS8050-D



MECHANICAL EXPLODED VIEW - 1/1



MECHANICAL PARTS LIST 1/1

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	S6-73A-042-A00		TOP CABINET<350EZ<B>>
1	S6-73A-043-A00		TOP CABINET<350EZ<S>>
2	S6-74A-050-A00		BOTTOM CABINET<350EZ<B>>
2	S6-74A-051-A00		BOTTOM CABINET<350EZ<S>>
3	S6-87A-086-A00		DIAL LENS
4	S6-97A-017-A00		BATTERY COVER<350EZ<S>>
4	S6-97A-011-A00		COVER BATTERY<350EZ<B>>
5	S6-12A-050-A00		BRACKET LED
6	S7-08A-053-A00		TUNING KNOB<350EZ<S>>
6	S7-08A-045-A00		TUNING KNOB(D-GRY)<350EZ<B>>
7	S7-08A-061-A00		VOLUME KNOB<350EZ<S>>
7	S7-08A-055-A00		VOLUME KNOB<350EZ<B>>
8	S7-01A-021-A00		DIAL POINTER<350EZ<S>>
9	S7-08A-071-A00		POWER KNOB<350EZ<S>>
9	S7-08A-065-A00		POWER KNOB<350EZ<B>>
10	S7-08A-081-A00		BAND KNOB<350EZ<S>>
10	S7-08A-075-A00		BAND KNOB<350EZ<B>>
11	S7-08A-051-A00		BUTTON CLOCK<350EZ<B>>
11	S7-08A-083-A00		CLOCK BUTTON<350EZ<S>>
12	S7-08A-085-A00		SNOOZE BUTON<350EZ<B>>
12	S7-08A-091-A00		SNOOZE BUTON<350EZ<S>>
13	S6-12A-041-A00		HOLDER,ANT
14	S6-35A-010-A00		RUBBER FOOT(BLK)

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

ACCESSORIES LIST

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	S8-00A-279-A00		INSTRUCTION BOOK(B)
1	S8-00A-280-A00		INSTRUCTION BOOK(C)
1	S8-00A-278-A00		INSTRUCTION BOOK8A)

サービス技術ニュース	
番号	連絡内容
G－　－	
G－　－	
G－　－	

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